

Mark the best answer.

1. Which expression can be used to represent the phrase “7 more than a number”? (5-1)
- A  $n - 7$   
B  $7 \times n$   
C  $7 \div n$   
D  $n + 7$
2. If a train travels an average of 45 miles per hour for 7 hours, it will travel  $7 \times 45$  miles. Which of the following is equal to  $7 \times 45$ ? (5-4)
- A  $(7 + 40) \times (7 + 5)$   
B  $(7 + 40) - (7 + 5)$   
C  $(7 \times 40) + (7 \times 5)$   
D  $(7 \times 40) \div (7 \times 5)$
3. Marcus ate 9 more grapes at lunch than Tricia, who had 22. Evaluate the expression  $x + 9$  for  $x = 22$ . (5-2)
- A 198  
B 31  
C 30  
D 13
4. When Amy returns a DVD late she must pay a late fee of \$3. If  $p$  stands for the original price of renting a DVD, which expression tells the total amount she must pay for returning a DVD late? (5-1)
- A  $p + 3$   
B  $p - 3$   
C  $p \times 3$   
D  $3 - p$
5. The expression  $x + 3$  represents the number of years Terry has been playing basketball when his sister Lauryn has been playing for  $x$  years. If Lauryn has been playing basketball for 9 years, how many years has Terry been playing basketball? (5-2)
- A 27  
B 12  
C 9  
D 3
6. What is the first step in evaluating the expression shown below? (5-5)
- $$14 \div 2 + (9 - 3) \times 3$$
- A Subtract 3 from 9.  
B Add 2 and 9.  
C Divide 14 by 2.  
D Multiply 3 by 3.

7. What value of  $n$  makes the following equation true? (5-4)

$$22 \times 108 = (22 \times 100) + (22 \times n)$$

- A 130  
B 108  
C 100  
D 8
8. The cost for  $n$  bus tickets is  $12n + 7$  dollars. What is the cost of 5 tickets? (5-3)
- A \$144  
B \$67  
C \$24  
D \$19
9. There are a total of 29 green, red, and blue marbles in a bag. There are 5 green marbles, and there are three times as many red marbles as blue ones. How many red marbles are in the bag? (5-6)
- A 24  
B 18  
C 15  
D 3
10. The expression  $9 \times n$  can represent which of the following phrases? (5-1)
- A  $n$  less than 9  
B  $n$  more than 9  
C 9 divided into  $n$  groups  
D 9 times  $n$
11. What is the value of the following expression? (5-5)
- $$(15 \div 3) + 6 \times (9 - 7)$$
- A 92  
B 22  
C 17  
D 1
12. Which expression can be used to represent the phrase “3 more than 8 times a number,  $p$ ”? (5-3)
- A  $8p + 3$   
B  $(p + 3) \times 8$   
C  $p + 3 \times 8$   
D  $p + (3 \times 8)$

- 13.** The expression  $4 - 3n$  can be used to represent which phrase? (5-3)

**A** Four minus three times a number  
**B** Four more than three times a number  
**C** Three less than four times a number  
**D** Three times a number, minus four

- 14.** What is the value of  $4m - (1 + 6)$  when  $m = 4$ ? (5-5)

**A** 21  
**B** 11  
**C** 9  
**D** 1

- 15.** Which of the following expressions has a value equal to 30? (5-5)

**A**  $(48 \div 6) + (2 \times 7) - 2$   
**B**  $48 \div (6 + 2) \times (7 - 2)$   
**C**  $48 \div 6 + 2 \times (7 - 2)$   
**D**  $(48 \div 6 + 2) \times 7 - 2$

- 16.** The table shows the cost to rent a bicycle at the beach. Which expression shows the cost of  $t$  days? (5-2)

| Number of Days | Total Cost |
|----------------|------------|
| 3              | \$27       |
| 4              | \$36       |
| 5              | \$45       |

**A**  $t + 9$   
**B**  $t - 9$   
**C**  $27t$   
**D**  $9t$